

- Immersion type membrane filtration device has pneumatic pressure piping connected to air nozzle and treated water circulation piping being connected to lower portion of process tank.

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NOVELTY - An immersion type membrane device has several membrane filters (6) immersed vertically in treated water.

DETAILED DESCRIPTION - Several membrane filters (6) are immersed in treated water vertically. The pneumatic pressure piping (3) being connected to air nozzle (4) and treated water circulation piping (2) are connected to lower portion of process tank (1) containing treated water. The surface of membrane filters are washed by air bubbles from air nozzle. Both the pipings (2,3) are provided with regulating valves (11,12).

An INDEPENDENT CLAIM is also included for filter cleaning method.

USE - The device is useful for cleaning membrane filters.

ADVANTAGE - Improves cleaning effect of membrane filter as air bubble distribution and treated water flow rate are uniform. Facilitates adjustment of treat water flow rate and air bubbles. Improves rectifying action of air bubble mixed water as blow-off area of air bubbles in treated water is extended by providing a coarse mesh at bottom part of process tank.

DESCRIPTION OF DRAWING(S) - The figure shows the enlarged view of process tank lower part. (Drawing includes non-English language text).  
Process tank 1

Treated water circulation piping 2

Pneumatic pressure piping 3

Air nozzle 4

Membrane filter 6

Regulating valves 11,12

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